

Math 1060: Trigonometry

Spring 2018 Syllabus



Math Department

Concurrent Enrollment Bingham High School

INSTRUCTOR: Tammy Lambourne

CLASSROOM: M101

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INSTRUCTOR WEB SITE: tammy.lambourne.wikispaces.com

CONSULTATION HOURS: \neg 7 – 7:25 AM Monday – Thursday and 2:30 – 3:00 PM Monday – Friday

Textbook

OER Math 1060 – Trigonometry, Pilot Edition, Salt Lake Community College & University of Utah

Links to the text, including individual sections, are within the Canvas course.

Prerequisites

Within the last year, you must have completed a college algebra course, such as Math 1050, with a grade of C or better, or a CPT score of at least 70 on the college algebra section. If you do not have documentation verifying one of these prerequisites, you will be advised to register for and complete Math 1050 here at the College.

Course Objectives

This course is intended to prepare students for a comprehensive course in calculus by teaching concepts and facts required for a major in math, physics, chemistry, engineering, and computer science, as well as many of the life sciences. The course presents trigonometric functions, polar functions, trigonometric equations, and solutions of acute triangles, right triangles, and oblique triangles. Polar coordinates, complex numbers, parametric equations, and vectors are also introduced. Students are required to know basic trigonometric facts such as the sine, cosine, and tangent values of special angles without using a calculator. Students are also required to know the fundamental trigonometric identities without looking them up.

Student Learning Outcomes

- Student will understand important trigonometric concepts.
- Student will acquire skills necessary for expressing concepts, ideas, and problem-solving techniques using correct mathematical notation and language.
- Student will gain knowledge of mathematical theory and develop skills in logical thinking, leading to understanding of mathematical proofs.
- Student will organize, present and explain solutions to problems involving real-world applications, both individually and through group work.
- Student will have the necessary knowledge and skills to succeed in a calculus course.

Class Schedule

The class schedule can be found within the Canvas course. This schedule will be followed as closely as possible. However, some modifications may be necessary during the semester. Your instructor will announce all modifications in class.

Homework

Your instructor will post a list of exercises assigned from the textbook. Some instructors will require homework to be submitted online. For instructors assigning online homework, the assignments will be available through your Canvas course site. Details of how and when homework is due will be discussed in class.

These exercises are the **required minimum** for you to demonstrate the learning objectives of the course and the mastery of the course concepts. You are encouraged to work more exercises than those assigned. Regular practice is essential in learning mathematics. You should be prepared to spend at least two hours studying outside of the class for each hour you spend in class. Many students find that much more time is required in order to perform as well as they desire on exams.

Midterm Exams

There will be three midterm exams during the semester. The midterm exams will be closed book and will be taken during a scheduled class period. Full credit will be awarded on test problems only if your work can be readily followed and solutions are precise and clearly indicated. No midterm exams will be dropped.

Final Exam

All students must take the departmental final exam. The final exam will be closed book. Full credit will be awarded on test problems only if your work can be readily followed and solutions are precise and clearly indicated. The final exam is a standardized departmental exam, which will account for at least 25% of your grade. A PORTION OF THE FINAL EXAM MUST BE COMPLETED WITHOUT THE USE OF A CALCULATOR. It is an SLCC Math Department policy that students attaining a score of less than 60% on the final exam shall receive a grade no higher than “D” for the course.

See the final exam schedule for this semester to verify the time of your exam.

Projects

Projects will be assigned by your instructor during the semester. These projects are designed to allow the student to examine “real-world” and/or historical applications using trigonometry as a tool. Projects may also be designed to help students learn important mathematical communication skills. Announcements regarding projects and their due dates will be made in class. One of these projects will be a signature assignment that you will be required to post in your e-portfolio.

General Education Statement

This course fulfills the Quantitative Literacy (QL) requirement for the General Education Program at Salt Lake Community College. It is designed not only to teach the information and skills required by the discipline, but also to develop vital workplace skills and to teach strategies and skills that can be used for life-long learning. General Education courses teach basic skills as well as broaden a student’s knowledge of a wide range of subjects. Education is much more than the acquisition of facts; it is being able to use information in meaningful ways in order to enrich one’s life. While the subject of each course is important and useful, we become truly educated through making connections of such varied information with the different methods of organizing human experience that are practiced by different disciplines. Therefore, this course, when combined with other General Education courses, will enable you to develop broader perspectives and deeper understandings of your community and the world, as well as challenge previously held assumptions about the world and its inhabitants.

General Education ePortfolio

Each student in General Education courses at SLCC maintains a General Education ePortfolio. Instructors in every Gen Ed course will ask you to put at least one assignment from the course into your ePortfolio, and accompany it with reflective writing. It is a requirement in this class for you to add to your ePortfolio one of the projects, as well as a reflection. Your ePortfolio will allow you to include your educational goals, describe your extracurricular activities, and post your resume. When you finish your time at SLCC, your ePortfolio will then be a multi-media showcase of your educational experience. For detailed information visit <http://www.slcc.edu/gened/eportfolio>. Make sure to check out the [Student Support Site](#).

For assistance, you may also visit an **ePortfolio Lab** (in the Taylorsville-Redwood Library, LIB 047, in HTC 102a on the Jordan Campus, and in 3-174 on the South City Campus) during business hours, and staff will help you without an appointment.

Grading

The following breakdown of weights will be used in the calculation of the course grade:

- 3 Midterm Examinations: at least 45% of the course grade 15% each
- Final Examination: at least 25% of the course grade
- Quizzes 5%, homework 15%, projects 5%, participation 5%, etc.: at least 10% but no more than 30% of the course grade.

Grades are assigned based on the following:

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E
Minimum %	93	90	87	83	80	77	73	70	67	63	60	0

It is an SLCC Math Department policy that students attaining a score of less than 60% on the final exam shall receive a grade no higher than “D” for the course.

Calculators

Calculators are used to demonstrate concepts and facilitate problems. They are not a substitute for learning the concepts. Students will graph basic trigonometric functions without the use of a calculator. Questions on exams will test basic facts that must be memorized, as well as how to use a calculator to help answer questions with intensive arithmetic steps or for approximations in applied problems. Calculator use will be restricted on some exams or portions of exams.

A portion of the final exam must be completed without the use of any calculator. Success in future math classes will require these skills and knowledge.

Calculators with a computer algebra system will not be allowed on quizzes, midterm exams or on the final exam. Prohibited calculators include the TI89, TI92, TI-Nspire, HP 48SX, HP 48GX, as well as other models and brands.

In addition, a cell phone and any other communication device that can connect to the Internet may not be used on any quizzes, exams or on the final exam.

Permanent Folder

In case of human or computer error, we recommend that students keep all homework and exams in a folder until they have received a grade for the course.

Attendance

Class attendance is expected. Regular attendance is essential to achieve satisfactory results. It is the student's responsibility to be aware of all material covered, test dates and assignment due dates.

Drop and Withdrawal Policy

Students who desire to drop or withdraw the class must do so by themselves before the deadlines stated at <http://www.slcc.edu/academiccalendar/>

Telling the instructor that you are withdrawing from the class is insufficient. You must withdraw from the class through the Registration office. No withdrawals will be approved after that date.

Math Department Website

The SLCC Math homepage is located at <http://www.slcc.edu/math/>. It contains FAQs, policies, final exam information, and tips for student success.

Disability Resource Center

SLCC values inclusive learning environments and strives to make all aspects of the College accessible to our students. If you have a disability and believe you need accommodations to improve access to learning materials or the learning environment, please contact the Disability Resource Center: (phone) 801-957-4659; (email) drc@slcc.edu; (website) www.slcc.edu/drc.

Student Code of Conduct

The student is expected to follow the [SLCC Student Code of Conduct](#).

Title IX Information

Title IX of the Educational Amendments of 1972 prohibits discrimination based on sex in any educational institution that receives federal funding. Salt Lake Community College does not tolerate sex discrimination of any kind including: sexual misconduct; sexual harassment; relationship/sexual violence and stalking. These incidents may interfere with or limit an individual's ability to benefit from or participate in the College's educational programs or activities. If you have questions or concerns regarding your rights or responsibilities, or if you would like to file a Title IX complaint please contact:

Kenneth Stonebrook, J.D.

Title IX Coordinator
Salt Lake Community College
Taylorsville Redwood Campus – STC 276A
(801) 957-5027
ken.stonebrook@slcc.edu

Online Reporting Form: <http://www.slcc.edu/eoo/title-ix/complaint.aspx>

Students may also report incidents to an SLCC faculty or staff member, who are required by law to notify the Title IX Coordinator. If a student wishes to keep the information confidential, the student may speak with staff members of the Center for Health and Counseling, (801) 957-4268.

For more information about Title IX, go to: <http://www.slcc.edu/eoo/title-ix/index.aspx>

Important Information for Students

General Education

Regardless of your major, General Education courses build a foundation of broad knowledge and skills that help you in your further career and life.

General Learning Support & Tutoring Services

General Learning Support & Tutoring Services provide support for SLCC students enrolled in any class at the College. All resources are provided free-of-charge. Ask your instructor about discipline-specific learning support and tutoring services.

- **Tutoring and Learning Centers:** provide free assistance in Math, Science, Accounting, CSIS and Allied Health Classes at 6 campus locations.
- **Student Writing Center:** provides in-person and online feedback on all writing assignments.
- **Academic Literacy Center:** provides tutoring in reading and conversation.
- **Library Services:** provides research help, print and online resources, computers and study space.
- **ePortfolio Lab:** provides drop-in assistance for all ePortfolio questions.
- **eLearning Support:** provides support for navigating online and hybrid classes.
- **Business Resource and Innovation Center:** provides tutors and a study space for students in Business and CSIS courses. Located in BB 226 on Taylorsville-Redwood Campus.

Advising and Counseling Support Services

Advising and Counseling Support Services provide support for students enrolled in any class at the college.

- **Center for Health and Counseling:** provides health care, mental health counseling, massage therapy services and healthy lifestyle programs.
- **Veterans' Services:** assists hundreds of students in using their VA education benefits each semester.
- **Academic and Career Advising:** helps students plan, explore, make decisions, access resources and evaluate their academic and career goals.
- **Academic Achievement Center:** helps students achieve GPA requirements for graduation.

SLCC Mission

SLCC is committed to fostering and assessing the following student learning outcomes in its programs and courses:

- Acquiring substantive knowledge in the field of their choice
- Developing quantitative literacy
- Developing the knowledge and skills to be civically engaged
- Thinking critically
- Communicating effectively

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I reserve the right to adjust the policies outlined in this disclosure document to better meet the needs of my students. Please contact me with any questions or concerns. The most effective way to reach me is by e-mail at tammy.lambourne@jordandistrict.org. I look forward to working with you this year. – Mrs. Lambourne

Teacher Signature: _____

Date: _____

Print Parent Name: _____

Parent Signature: _____

Date: _____

Print Student Name: _____

Student Signature: _____

Date: _____